

(1) EC-TYPE EXAMINATION CERTIFICATE

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 10ATEX0141 X** Issue Number: **1**

(4) Equipment: **Pressure Transmitter Series PAD and PAS**

(5) Manufacturer: **Kobold Messring GmbH**

(6) Address: **Nordring 22-24, 65719 Hofheim, Germany**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report number 213610600.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2006

EN 60079-1 : 2004

EN 60079-1 : 2007

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



II 2 G Ex d IIC T6 or T5 (Series PAD)

II 2 G Ex d IIC T6...T4 (Series PAS)

This certificate is issued on July 12, 2010 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.

T. Pijpker
Certification Manager



Page 1/2

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 10ATEX0141 X** Issue No. 1

(15) **Description**

The Pressure Transmitter Series PAD and PAS measures the pressure of a process and converts it into an electrical 4 - 20 mA analog current signal with digital communication (HART protocol).

Ambient temperature range: -20 °C to +60 °C
Process temperature: max. 85 °C for T6
max. 100 °C for T5
max. 130 °C for T4

Electrical data

Supply: 11,9 to 42 Vdc
Output: 4 - 20 mA

Installation instructions

The instructions as provided by the manufacturer shall be followed in detail to assure safe operation of the equipment.

The cable glands and blanking elements shall be of a certified flameproof type, suitable for the conditions of use and correctly installed.

Routine tests

Each welded sensor of the Series PAD transmitters shall be subjected to the routine test of EN 60079-1 : 2004, clause 16 using a test pressure of 1 MPa during at least 10 seconds.

Each welded sensor of the Series PAS transmitters shall be subjected to the routine test of EN 60079-1 : 2007, clause 16 using a test pressure of 840 kPa during at least 10 seconds.

(16) **Test Report**

KEMA No. 213610600.

(17) **Special conditions for safe use**

For information regarding the dimensions of the flameproof joints the manufacturer shall be contacted.

(18) **Essential Health and Safety Requirements**

For Series PAD, covered by the standards EN 60079-0 : 2006 and EN 60079-1 : 2004
For Series PAS, covered by the standards EN 60079-0 : 2006 and EN 60079-1 : 2007

(19) **Test documentation**

As listed in Test Report No. 213610600.